INSTRUCTIONS

-J03021 REV. 07-03-2003

Kit Number 26721-01A

VRSC RADIATOR KIT

General

This kit fits all 2002 and later VRSC (V-Rod®) models.

See the Service Parts illustration for kit contents.

NOTE

This instruction sheet references Service Manual information. A Service Manual for your model motorcycle is required for this installation and is available from any Harley-Davidson Dealer.

Removing the Existing Radiator Assembly

⚠WARNING

Do not remove radiator filler cap when engine is hot. The cooling system is under pressure and hot coolant and steam can escape, which could cause severe burns. Allow engine to cool before servicing the cooling system. (00091a)

⚠WARNING

To prevent accidental vehicle start-up, which could cause death or serious injury, disconnect negative (-) battery cable before proceeding. (00048a)

1. Refer to BATTERY MAINTENANCE, DISCONNECTION in the Service Manual to disconnect the maxi-fuse and negative battery cable.
2. Cover the front fender with a shop towel or protective cover.
3. Refer to RADIATOR/ OIL COOLER, REMOVAL in the Service Manual to remove the radiator assembly. It will not be necessary to remove the air filter or velocity stacks.

2004 and Later Models

4. Proceed to “Installing the New Radiator Assembly”. The two quick-connect oil fittings (23) and cable strap (28) in the kit can be discarded.

2002-2003 Models

4. Refer to OIL LINE FITTINGS, REMOVAL in the Service Manual to remove the “oil in” fitting at the crankcase and the “oil out” fitting at the oil filter.
5. Obtain the two quick-connect oil fittings (23) from the kit. Thread the fitings into the holes in place of the original fittings Tighten the fittings to 40-44 Nm (29-32 ft-lbs).

Installing the New Radiator Assembly

1. Hold the new radiator/ oil cooler assembly up to the motorcycle frame.
2. Line up and fit the radiator inlet and outlet pipes to the engine coolant hoses.
3. See Figure 1. Supporting the radiator/ oil cooler assembly, push the oil line into the “oil out” fitting on the engine oil filter until it clicks in place under the spring clip.

NOTE

The yellow witness band on the flanged oil line will not be visible if the oil line has been correctly snapped into the fitting.

4. Snap the plastic dust cap over the spring clip groove.

NOTE

The dust cap will not snap onto the fitting if the oil line is not correctly installed on the fitting.

5. Thread on, but do not tighten, the nuts holding the radiator/ oil cooler assembly to the engine mount studs.
6. Push the remaining oil line into the “oil in” fitting on the crankcase until it clicks in place under the spring clip. Snap the plastic dust cap over the spring clip groove.

Figure 1. Flanged Oil Line

7. Install the grommets (18) into the holes in the radiator/ oil cooler crossmember. Assemble the crossmember to the mounting pins on the bottom of the oil cooler. Install the crossmember to the frame.

8. Lightly tug on the oil lines to verify that they are securely locked to the fittings.

9. Tighten the cooling system fasteners as follows:
   - Cross member fasteners to 20-26 Nm (15-19 ft-lbs).
   - Top mounting nuts (22) to 19-27 Nm (15-20 ft-lbs).
   - Pipe clamp to 6.5 Nm (57 **in-lbs**).
   - "P"-clamp to 6-10 Nm (53-88 **in-lbs**).
   - Hose clamps to 3-4 Nm (27-35 **in-lbs**).

10. Route the drain hose (7) to the overflow bottle.

11. Secure the voltage regulator connector to the top plate of the radiator
    - **2002-2003 Models:** Use the cable strap (28) from the kit.
    - **2004 and Later Models:** Use the cable strap already assembled to the connector.

    The "rosebud" on the strap snaps into the hole in the radiator top plate.

12. Install the radiator cover.

13. Make the electrical connections as follows:
    - Mate the crank position sensor connector [79] halves.
    - Mate the top [97T] and bottom [97B] cooling fan connector halves.
    - Mate the stator to voltage regulator connector [46] halves.
    - Push the top fan connector [97T] into the radiator cover.

    Use a cable strap (not provided) to tie the fan wiring harness to the crank position sensor wiring harness

14. Install the left- and right-side radiator trim covers.

15. Fill the engine with oil. See ENGINE OIL AND FILTER in the Service Manual.

16. Remove the radiator pressure cap. Loosen the air bleed plug. Fill the radiator with Genuine Harley-Davidson Extended Life Antifreeze & Coolant through the filler neck. See ENGINE COOLANT in the Service Manual.

    Tighten the air bleed plug to 9-11 Nm (80-97 **in-lbs**). and reinstall the pressure cap.

17. Install the air cleaner cover and the decorative air box cover. See AIRBOX AND AIR FILTER in the Service Manual.

CAUTION

Do not over-tighten bolts on battery terminals. Use recommended torque values. Over-tightening battery terminal bolts could result in damage to battery terminals. (00216a)

18. Reinstall the negative battery cable. Tighten to 6.8-10.8 Nm (60-96 **in-lbs**).

19. Install the maxi-fuse and right side cover.

CAUTION

When closing the seat, make sure the ignition switch is in the FUEL position. If the ignition switch is in any other position when the seat is closed, the seat latch mechanism could be damaged. (00196a)

20. Close the seat, then start the engine. While the engine is running, inspect the oil fittings for leaks. If leaks are found, turn off the engine and correct.

    Check the coolant level in the overflow bottle with the coolant cold and the motorcycle on the jiffy stand. If the coolant level is below the COLD FULL line, remove the cap from the overflow bottle and add Genuine Harley-Davidson Extended Life Antifreeze & Coolant until the fluid level reaches the COLD FULL line.

    Continue to run the engine, checking for oil leaks. Watch the coolant level and add fluid until the level remains at the COLD FULL line with the motorcycle on the jiffy stand.

    Turn off the engine, check the oil level and add oil if required.

Radiator Maintenance

CAUTION

Carefully clean the front surface of the radiator regularly. Leaves and other debris can collect on the radiator surface and degrade radiator performance. This could lead to engine overheating and engine damage. (00197a)

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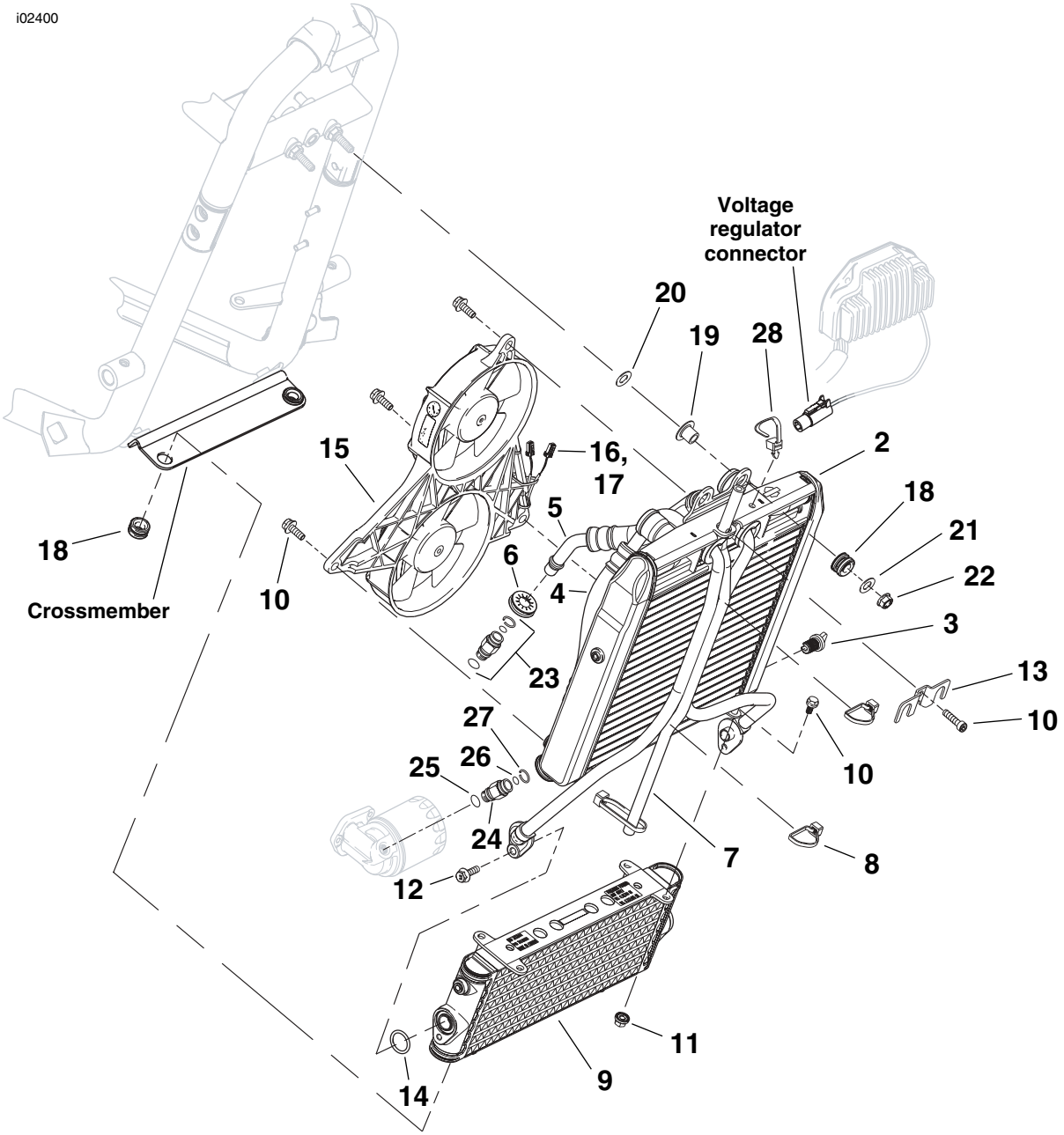

Item	Description (Quantity)	Part No.
1	Cooling module (consists of items 2-22)	Not sold separately
2	Radiator	26722-04
3	Plug	5235
4	Hose ass'y, oil cooler inlet	62940-04
5	Hose ass'y, oil cooler outlet	62941-04
6	Cap	62909-04
7	Hose, drain	62953-01
8	Cable strap (3)	10065
9	Oil cooler assembly	26723-04
10	Screw (8)	5237M
11	Nut (4)	5238M
12	Screw (2)	5236M
13	Bracket	26772-04
14	"O"-ring (2)	11101
15	Fan assembly	26724-04
16	Socket housing, 2-place (2)	73152-96BK
17	Contact, socket (4)	73191-96
18	Grommet (4)	26757-01
19	Bushing (2)	11568
20	Spacer (2)	26758-01
21	Washer, front (2)	6838M
22	Nut (2)	3725M
23	Oil feed/ return fitting ass'y (2) (consists of items 24-27)	63650-04K
24	Fitting, oil feed/ return	Not sold separately
25	"O"-ring, 13.3mm (.52 in) I.D.	10994K
26	"O"-ring, 12.4mm (.49 in) I.D.	11140
27	Retainer, wire clip	11384K
28	Cable strap, rosebud mount	10073